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LAMINAR INORGANIC SUBSTANCE-CONTAINING RESIN FILM

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Abstract

PROBLEM TO BE SOLVED: To prepare the subject film capable of maintaining transparency and surface smoothness of a resin of its own, developing excellent modulus of elasticity, dimensional stability, gas barrier properties, etc., useful in the field of food packaging material, liquid crystal board, etc., by adding a prescribed silane clay composite to a specific resin.

SOLUTION: This film comprises (A) a polyester resin or a polycarbonate resin and (B) a silane clay composite material. The component B is prepared by introducing a compound (B2) of the formula $Y_n Si_4-n$ [Y is a (substituted) 1-25C hydrocarbon group; X is a hydrolyzable group or OH; (n) is 0-3] to a swelling silicate (B1) such as smectite group clay or swelling mica. The average layer thickness of the component B in the film is adjusted to $\leq 300 \text{ \AA}$ (preferably the average aspect ratio is 10-300 and the number of particles existing in $100 \mu m^2$ film area per unit ratio is ≥ 30).

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